

# Tessellation 11 (N)

Suite: Tessellation Party!  
by Arya Akhavan (Octoer 2012)

### Facet Data

|                     |            |                    |           |
|---------------------|------------|--------------------|-----------|
| Pavilion facets     | 24         | Pavilion tiers     | 6         |
| Girdle facets       | 16         | Girdle tiers       | 5         |
| Crown facets        | 62+1       | Crown tiers        | 16+1      |
| <b>Total facets</b> | <b>103</b> | <b>Total tiers</b> | <b>28</b> |

### Size Data

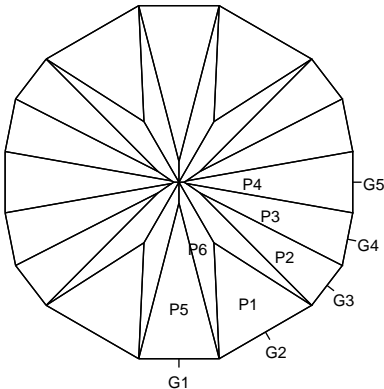
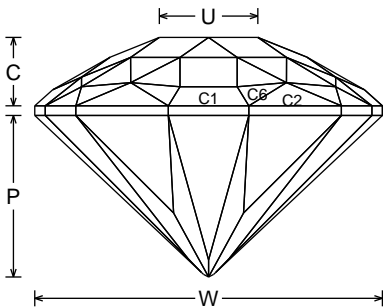
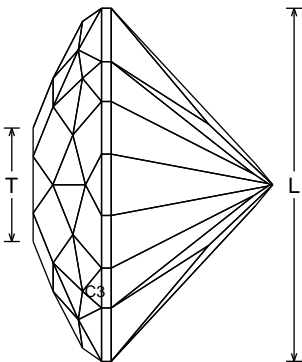
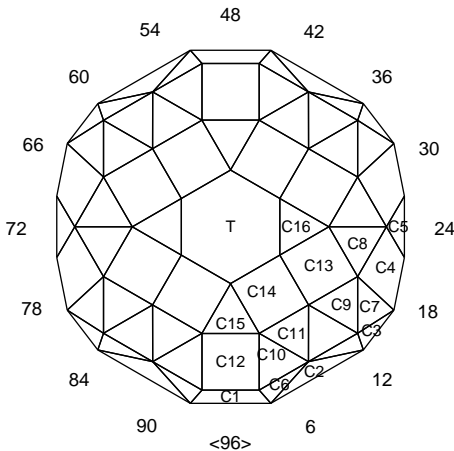
|       |       |     |       |
|-------|-------|-----|-------|
| L/W   | 1.016 | P/W | 0.465 |
| T/W   | 0.326 | C/W | 0.197 |
| U/W   | 0.283 | H/W | 0.689 |
| V/W^3 | 0.239 | P/C | 2.361 |

### Design Data

|                 |                |
|-----------------|----------------|
| Angles for R.I. | 1.72           |
| Symmetry        | 2-fold, mirror |
| Index gear      | 96             |

### Comments

This is my first foray into the N types. I didn't realize just how many steps these crowns would take! This stone has an interesting and lively reflection pattern, but it does take quite a bit of effort to get there. Watch out on the crown - there are LOTS of facets that have to meet two unique meetpoints at the same time, and that can get difficult. Can be cut in materials from quartz to rutile (RI = 1.54 - 2.62) with no changes.



### Pavilion

|    |       |                         |                                     |
|----|-------|-------------------------|-------------------------------------|
| P1 | 43.42 | 08-40-56-88             | Cut to centerpoint.                 |
| P2 | 42.24 | 14-34-62-82             | Meet at culet.                      |
| P3 | 42.86 | 21-27-69-75             | Meet at culet.                      |
| P4 | 43.29 | 24-72                   | Meet at culet.                      |
| P5 | 42.84 | 96-48                   | Meet at culet.                      |
| G2 | 90.00 | 08-40-56-88             | Level girdle.                       |
| G5 | 90.00 | 24-72                   | Level girdle.                       |
| G4 | 90.00 | 21-27-69-75             | Level girdle.                       |
| G1 | 90.00 | 96-48                   | Set stone length.                   |
| G3 | 90.00 | 14-34-62-82             | Level girdle.                       |
| P6 | 42.52 | 07-09-39-41-55-57-87-89 | Meet P1, P2, G2, G3; P1, P5, G1, G2 |

### Crown

|     |       |                         |                             |
|-----|-------|-------------------------|-----------------------------|
| C1  | 55.21 | 96-48                   | Set girdle width.           |
| C2  | 53.31 | 08-40-56-88             | Level girdle.               |
| C3  | 52.38 | 14-34-62-82             | Level girdle.               |
| C4  | 34.24 | 21-27-69-75             | Level girdle.               |
| C5  | 41.80 | 24-72                   | Level girdle.               |
| C6  | 48.20 | 07-09-39-41-55-57-87-89 | Meet G1, G2, C1, C2         |
| C7  | 33.25 | 20-28-68-76             | Meet G3, G4, C3, C4         |
| C8  | 29.76 | 22-26-70-74             | Meet C4, C5                 |
| C9  | 27.83 | 19-29-67-77             | Meet C3, C6, C7; C4, C7, C8 |
| C10 | 29.26 | 06-10-38-42-54-58-86-90 | Meet C2, C6; C3, C6, C7, C9 |
| C11 | 27.16 | 08-40-56-88             | Meet C2, C6, C10            |
| C12 | 27.37 | 96-48                   | Meet C1, C6, C10            |

|     |       |             |                                       |
|-----|-------|-------------|---------------------------------------|
| C13 | 26.21 | 20-28-68-76 | Meet C4, C7, C8, C9; C9, C10, C11     |
| C14 | 19.19 | 08-40-56-88 | Meet C9, C10, C11, C13; C10, C11, C12 |
| C15 | 21.90 | 96-48       | Meet C10, C11, C12, C14               |
| C16 | 21.90 | 24-72       | Meet C8, C13                          |
| T   | 0.00  | Table       | Meet C13, C14, C16; C14, C15          |